FORM PTO-1449/A and B (Modified)	APPLICATION NO.: 09/804,987	ATTY. DOCKET NO.: M0765/7035
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: March 13, 2001	
	APPLICANT: Waeber, et al.	
Sheet __ of __	GROUP ART UNIT: ~~not yet assigned~~ 1646	**EXAMINER:** ~~not yet assigned~~ Ruixiang Li

U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document Number	U.S. Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYY
RLi		6,098,631		Holoshitz, et al.	August 8, 2000
		5,939,425		Caruso	August 17, 1999
		5,712,262		Spiegel	January 27, 1998
↓		5,585,476		MacLennan	December 17, 1996

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document Office/ Country	Foreign Patent Document Number	Foreign Patent Document Kind Code	Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
RLi		PCT	WO 99/46277			09/16/99	
		PCT	WO 99/35259			07/15/99	
		PCT	WO 99/12533			03/18/99	
		PCT	WO 98/53062			11/26/98	
↓		PCT	WO 97/00952			01/09/97	

OTHER ART — **NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
RLi		An, et al., "Molecular cloning of the human Edg2 protein and its identification as a functional cellular receptor for lysophosphatidic acid", *Biochem. Biophys. Res. Comm.*, 231(3):619-22 (1997) **ABSTRACT**		
		Ancellin, et al., "Differential pharmacological properties and signal transduction of the sphingosine 1-phosphate receptors EDG-1, EDG-3, and EDG-5", *J. Biol. Chem.*, 274(27):18997-9002 (1999) **ABSTRACT**		
		Auge, et al., "Role of sphingosine 1-phosphate in the mitogenesis induced by oxidized low density lipoprotein in smooth muscle cells via activation of sphingomyelinase, ceramidase, and sphingosine kinase", *J. Biol. Chem.*, 274(31):21533-8 (1999) **ABSTRACT**		
		Brindley, et al., "Analysis of ceramide 1-phosphate and sphingosine-1-phosphate phosphatase activities", *Methods in Enzymology*, 311(27):233-244 (1999)		
		Chasen, et al., "Cardiovascular triggers and morning events", *Blood Press. Monit.*, 3(1):35-42 (1998) **ABSTRACT**		
		Coplin, et al., "Cerebrospinal fluid creatine kinase-BB isoenzyme activity and outcome after subarachnoid hemorrhage", *Arch. Neurol.*, 56(11):1348-52 (1999) **ABSTRACT**		
↓		Coroneos, et al., "Differential regulation of sphingomyelinase and ceramidase activities by growth factors and cytokines. Implications for cellular proliferation and differentiation", *J. Biol. Chem.*, 270(40):23305-9 (1995) **ABSTRACT**		

RLi		De Jonghe, et al., "Structure-activity relationship of short-chain sphingoid bases as inhibitors of sphingosine kinase", *Bioorg. Med. Chem. Lett.*, 9(21):3175-80 (1999) **ABSTRACT**		
		Edmunds, et al., "Effects of tumor necrosis factor-alpha on the coronary circulation of the rat isolated perfused heart: a potential role for thromboxane A2 and sphingosine", *Br. J. Pharmacol.*, 123(3):493-8 (1998) **ABSTRACT**		
		Edsall, et al., "Enzymatic measurement of sphingosine 1-phosphate", *Anal Biochem*, 272(1):80-6 (1999) **ABSTRACT**		
		Erickson, et al., "Edg-2/Vzg-1 couples to the yeast pheromone response pathway selectively in response to lysophosphatidic acid", *J. Biol. Chem.*, 273(3):1506-10 (1998) **ABSTRACT**		
		Fatatis, et al., "Sphingosine and sphingosine 1-phosphate differentially modulate platelet-derived growth factor-BB-induced Ca2+ signaling in transformed oligodendrocytes", *J. Biol. Chem.*, 271(1):295-301 (1996) **ABSTRACT**		
		Heximer, et al., "RGS2/GOS8 is a selective inhibitor of Gqα function", *Proc. Natl. Acad. Sci.* USA, 94:14389-14393 (1997)		
		Hooks, et al., "Characterization of a receptor subtype-selective lysophosphatidic acid mimetic", *Mol. Pharmacol.*, 53(2):188-94 (1998) **ABSTRACT**		
		Klages, et al., "Activation of G_{12}/G_{13} results in shape change and Rho/Rho -Kinase-mediated myosin light chain phosphorylation in mouse platelets", *J. Cell Biol.*, 144(4):745-754 (1999)		
		Kohama, et al., "Molecular cloning and functional characterization of murine sphingosine kinase", *J. Biol. Chem.*, 273(37):23722-8 (1998) **ABSTRACT**		
		Kozai, et al., "Platelet activating factor causes hyperconstriction at the inflammatory coronary lesions in pigs in vivo", *Coron. Artery Dis.*, 8(7):423-32 (1997) **ABSTRACT**		
		Lee, et al., "Lysophosphatidic acid stimlates the G-protein-coupled receptor EDG-1 as a low affinity agonist", *J. Biol. C hem.*, 273(34):22105-12 (1998) **ABSTRACT**		
		Lee, et al., "Sphingosine 1-phosphate induces angiogenesis:its angiogenic action and signaling mechanism in human umbilical vein endothelial cells", *Biochem. Biophys. Res. Comm.*, 264(3):743-750 (1999) **ABSTRACT**		
		Lee, et al., "Sphingosine-1-phosphate as a ligand for the G protein-coupled receptor EDG-1", *Science* 279(5356):1552-5 (1998) **ABSTRACT**		
		Li, et al., "Effects of ceramide on Kca channel activity and vascular tone in coronary arteries", *Hypertension*, 33(6):1441-6 (1999) **ABSTRACT**		
		Liu, et al., "Ligand-induced trafficking of the sphingosine-1-phosphate receptor EDG-1", *Mol. Biol. Cell.*, 10(4):1179-90 (1999) **ABSTRACT**		
		MacLennan, et al., "Cloning and characterization of a putative G-protein coupled receptor potentially involved in development", *Mol. Cell. Neurosci.*, 5(3):201 **ABSTRACT**		
		Mandala, et al., "Molecular cloning and characterization of a lipid phosphohydrolase that degrades sphingosine-1-phosphate and induces cell death", *PNAS*, 97(14):7859-7864 (2000)		
		Mao, et al., "The dihydrosphingosine-1-phosphate phosphatases of Saccharomyces cerevisiae are important regulators of cell proliferation and heat stress response", *Biochem. J.*, 342 (Pt 3):667-75 (1999) **ABSTRACT**		
		Masana, et al., "Cloning and characterization of a new member of the G-protein coupled receptor EDG family", *Receptors Channels*, 3(4):255-62 (1995) **ABSTRACT**		
		Meij, J.T., "Regulation of G protein function: implications for heart disease", *Mol. Cell Biochem.*, 157(1-2):31-8 (1996) **ABSTRACT**		
		Murohara, et al., "Effects of sphingomyelinase and sphingosine on arterial vasomotor regulation", *J. Lipid Res.*, 37(7):1601-8 (1996) **ABSTRACT**		
		Murray, et al., "Effect of protein kinase C inhibitors on endothelin- and vasopressin-induced constriction of the rat basilar artery", *Am. J. Physiol.*, 263(6 Pt 2):H1643-9 (1992) **ABSTRACT**		
		Murray, et al., "Role of protein kinase C in constrictor responses of the rat basilar artery in vivo", *J. of Phys.*, 445:169-179 (1992)		
		Murray, et al., "Signal transduction pathways in constriction of the basilar artery in vivo", *Hypertension*, 19(6 tp 2):739-42 (1992) **ABSTRACT**		
		Offermanns, et al., "$G\alpha_{13}$ are phosphorylated during platelet activation", *J. Biol. Chem.*, 271(42):26044-26048 (1996)		
		Okamoto, et al., "EDG3 is a functional receptor specific for sphingosine 1-phosphate and sphingosylphosphorylcholine with signaling characteristics distinct from EDG1 and AGR16", *Biochem. Biophys. Res. Commun.*, 260(1):203-8 (1999) **ABSTRACT**		
		Olivera, et al., "Effect of acidic phospholipids on sphingosine kinase", *J. Cell. Biochem.*, 60(4):529-37 (1996) **ABSTRACT**		

RLi		Olivera, et al., "Sphingosine kinase expression increases intracellular sphingosine-1-phosphate and promotes cell growth and survival", *J. Cell Biol.*, 140(3):545-558 (1999) **ABSTRACT**		
		Parfenova, et al., "Role of tyrosine phosphorylation in the regulation of cerebral vascular tone in newborn pig in vivo", *Am. J. Physiol.*, 276(1 Pt 2):H185-932 (1999) **ABSTRACT**		
		Prieschl, et al., "The balance between sphingosine and sphingosine-1-phosphate is decisive for mast cell activation after Fc epsilon receptor I triggering", *J. Exp. Med.*, 190(1):1-8 (1999) **ABSTRACT**		
		Rakhit, et al., "Sphingosine 1-phosphate stimulation of the p42/p44 mitogen-activated protein kinase pathway in airway smooth muscle...", *Biochem. J.*, 338(Pt 3):643-9 (1999) **ABSTRACT**		
		Rizza, et al., "Lysophosphatidic acid as a regulator of endothelial/leukocyte interaction", *Lab Invest.*, 79(10):1227-35 (1999) **ABSTRACT**		
		Salomone, et al., "Sphingosine-1 phosphate and dihydrosphingosine-1-phosphate exert potent and long lasting contractile effects on isolated rat basilar, but not carotid artery", Poster Presentation @ 6th Conference on EBL in Cancer, Inflammatory and related diseases, Boston, September 13th, 1999		
		Sehic, et al., "Effect of protein kinase C inhibitors on the actions of phorbol esters on vascular tone and adrenergic transmission in the isolated rat kidney", *J. Pharmacol. Exp. Ther.*, 253(2):497-507 (1990) **ABSTRACT**		
		Shatrov, et al., "Sphingosine-1-phosphate mobilizes intracellular calcium and activates transcription factor NF-kappa B in U937 cells", *Biochem., Biophys. Res. Comm.*, 234(1):121-4 (1997) **ABSTRACT**		
		Shinpo, et al., "Protective effects of the TNF-ceramide pathway against glutamate neurotoxicity on cultured mesencephalic neurons", *Brain Res.*, 819(1-2):170-3 (1999) **ABSTRACT**		
		Spiegel, et al., "Roles of sphingosine-1-phosphate in cell growth, differentiation, and death", *Biochemistry (Mosc)*, 63(1):69-73 (1998) **ABSTRACT**		
		Spiegel, et al., "Sphingolipid metabolism and cell growth regulation", *FASEB J.*, 10(12):1388-97 (1996) **ABSTRACT**		
		Spiegel, et al., "Sphingosine-1-phosphate in cell growth and cell death", *Ann N Y Acad Sci*, 845:11-8 (1998) **ABSTRACT**		
		Spiegel, S., "Sphingosine 1-phosphate: a prototype of a new class of second messengers", *J. Leukoc Biol.*, 65(3):341-4 (1999) **ABSTRACT**		
		Windh, et al., "Differential coupling of the sphingosine 1-phosphate receptors edg-1, edg-3, and H218/Edg-5 to the g(i), g(q), and G(12) families of heterotrimeric G proteins", *J. Biol. Chem.*, 274(39):27351-8 (1999) **ABSTRACT**		
		Xia, et al, "High density lipoproteins (HDL) interrupt the sphingosine kinase signaling pathway. A possible mechanism for protection against atherosclerosis by hdl", *J. Biol. Chem.*, 274(46):33143-33147 (1999) **ABSTRACT**		
		Xia, et al., "Activation of sphingosine kinase by tumor necrosis factor-alpha inhibits apoptosis in human endothelial cells", *J. Biol. Chem.*, 274(48):34499-505 (1999) **ABSTRACT**		
		Yamaguchi, et al., "Molecular cloning of EDG-3 and N-Shc genes from the puffer fish, fugu rubripes, and conservation of synteny with the human genome(1)", *FEBS Lett.*, 459(1):105-10 (1999) **ABSTRACT**		
		Yamaguchi, et al., "Molecular cloning of the novel human G protein-coupled receptor (GPCR) gene mapped on chromosome 9", *Biochem. Biophys. Res. Commun.*, 227(2):608-14 (1996) **ABSTRACT**		
		Yang, et al., "Sphingosine 1-phosphate formation and intracellular Ca2+ mobilization in human platelets: evaluation with sphingosine kinase inhibitors", *J. Biochem.*, 126(1):84-9 (1999) **ABSTRACT**		
		Yatomi, et al., "N,N-dimethylspingosine inhibition of sphingosine kinase and sphingosine 1-phosphate activity in human platelets", *Biochemistry*, 35(2):626-33 (1996) **ABSTRACT**		
		Yatomi, et al., "Sphingosine-1-phosphate: a platelet-activating sphingolipid released from agonist-stimulated human platelets", *Blood*, 86(1):193-202 (1995) **ABSTRACT**		
		Yoshida, et al., "Activation of Gil by lysophosphatidic acid receptor without ligand in the baculoviurs expression system", *Biochem. Biophys. Res. Commun.*, 259(1):78-84 (1999) **ABSTRACT**		
		Young, et al., "Lysophosphatidic acid-mediated Ca2+ mobilization in human SH-SY5Y neuroblastoma cells is independent of phosphoinositide signalling, but dependent on sphingosine kinase activation", *Biochem. J.*, 343 Pt 1:45-52 (1999) **ABSTRACT**		

RL i		Zheng, et al., "C_2-ceramide attenuates prostaglandin $F_{2\alpha}$-induced vasoconstriction and elevation of $[Ca^{2+}]_i$ in canine cerebral vascular smooth muscle", *Neuroscience Letters*, 256:113-116 (1998)		
RL i		Zondag, et al., "Sphingosine 1-phosphate signalling through the G-protein-coupled receptor Edg-1", *Biochem. J.*, 330(Pt 2):605-9 (1998) **ABSTRACT**		

EXAMINER	DATE CONSIDERED
Ruixiang Li	2/24/2003

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

FORM PTO-1449(Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO.: M0765/7035	SERIAL NO.: 09/804,988
	APPLICANT: Waeber, et al.	
	FILING DATE: March 13, 2001	GROUP: ~~1614~~ 1646

U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
RLi	A1	5,688,499	11/18/97	Banting, et al.	A		

FOREIGN PATENT DOCUMENTS

		Country & Doc. No. (11)	Pub. Date (43)		Class	Sub Class	Translation Yes	No

OTHER ART
(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)

RLi	C14		Tigyi, et al., "Lysophosphatidic acid alters cerebrovascular reactivity in piglets", Am J Physiol. Vol 268(5 Pt 2), pp.H2048-55 (see abstract, lines 20-26) 1995
	C15		Siess, et al., "Lysophosphatidic acid and sphingosine 1-phosphate: two lipid villains provoking cardiovascular disease?", IUBMB Life, Vol. 49, pp.167-171 (see abstract lines 1-10) 2000
	C16		Yamazaki, et al. "Edg-6 as a putative sphingosine 1-phosphate receptor coupling to Ca+2 signaling pathway", Biochem Biophys Res. Comm.l, Vol. 268, pp. 583-589 (see entire document) 2000
	C17		Matsuda, et al., "The quality control of stroma-free hemoglobin: lysophosphatidylcholine, a component of stromal phospholipids, as candidate vasoconstrictive factor", Art. Cells Blood Substit Immobil Biotechnol., Vol. 22, pp. 939-944 (see abstract, lines 13-end) 1994
	C18		Goetzl, et al. "A subfamily of G-protein-coupled cellular receptors for lysophospholipids and lysosphingolipids" Adv. Exp. Med. Biol, Vol. 469, pp. 259-264 (see entire document) 1999

EXAMINER	Ruixiang L.	DATE CONSIDERED	2/24/2003

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant